according to Regulation (EC) No. 1907/2006 (REACH)

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# **Pluravest Press LiSiO**

# **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

#### 1.1. Product identifier

Trade name/designation:

## **Pluravest Press LiSiO**

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### **Use of the substance/mixture:**

phosphatgebundene Einbettmasse only for the production of dental cast objects

## 1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

#### Pluradent AG & Co.KG

Kaiserleistrasse 3 63067 Offenbach a.M.

Germany

**Telephone:** +49 69 82983-0 **Telefax:** +49 69 82938-271

E-mail: regulatory.affairs@pluradent.de

Website: www.pluradent.de

#### 1.4. Emergency telephone number

Giftnotruf Mainz , 24h: +49 (0) 6131/19240

Vergiftungsinformationszentrale der Gesundheit Österreich, 24h: +43 1 406 43 43

### **SECTION 2: Hazards identification**

#### 2,1, Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories		Classification proc edure
1 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	H372: Causes damage to organs through prolonged or repeated exposure. ()	Calculation method.

## 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

**Hazard pictograms:** 



Health hazard

Signal word: Warning

#### Hazard components for labelling:

Quartz (SiO2); cristobalite

hazard statements for health hazards	
H372	Causes damage to organs through prolonged or repeated exposure. ()

Supplemental Hazard information (EU): -

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Precautionary statements Prevention	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.

Precautionary statements Response	
P314	Get medical advice/attention if you feel unwell.

Precautionary statements Disposal	
P501	Dispose of contents/container to in accordance with local regulations of disposal.

#### 2.3. Other hazards

#### Adverse physicochemical effects:

Ammonia is formed when heated above 200 ° C.

## Adverse human health effects and symptoms:

Ammonia irritates the respiratory system.

May cause silicosis.

#### Adverse environmental effects:

A PBT / vPvB assessment is not available as a chemical safety assessment is not required / was carried out.

## **SECTION 3: Composition / information on ingredients**

#### 3.2. Mixtures

## Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concen- tration
CAS No.: 14808-60-7 EC No.: 238-878-4	Quartz (SiO2) STOT RE 1 H372	50 – 70 Wt %
CAS No.: 14464-46-1 EC No.: 238-455-4	cristobalite STOT RE 1 H372	10 – 30 Wt %
CAS No.: 1309-48-4 EC No.: 215-171-9	magnesia The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	5 – 15 Wt %
CAS No.: 7722-76-1 EC No.: 231-764-5	ammonium dihydrogenorthophosphate The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	5 – 15 Wt %

Full text of H- and EUH-phrases: see section 16.

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **General information:**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Remove contaminated, saturated clothing.

#### Following inhalation:

Provide fresh air. Get medical advice/attention if you feel unwell.

#### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap.

### After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### After ingestion:

No special measures are necessary.

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## 4.2. Most important symptoms and effects, both acute and delayed

No further relevant information available.

**4.3.** Indication of any immediate medical attention and special treatment needed Treat symptomatically.

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media:

Co-ordinate fire-fighting measures to the fire surroundings.

#### 5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

## **Hazardous combustion products:**

Ammonia is formed when heated above 200 ° C.

#### 5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings.

Usual measures for fire prevention.

#### **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

## **Personal precautions:**

Avoid dust formation.

#### **Protective equipment:**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### 6.1.2. For emergency responders

#### **Personal protection equipment:**

Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. Methods and material for containment and cleaning up

#### For containment:

Take up mechanically.

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

#### **Protective measures**

#### Advices on safe handling:

Use appropriate respiratory protection. Do not breathe dust.

#### Measures to prevent aerosol and dust generation:

Dust should be exhausted directly at the point of origin.

The usual precautionary measures should be observed when handling chemicals.

#### Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

according to Regulation (EC) No. 1907/2006 (REACH)

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Storage class: 13 - Non-combustible solids that cannot be assigned to any of the above storage classes

#### 7.3. Specific end use(s)

**Recommendation:** 

Restricted to professional users.

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

## 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	<ol> <li>long-term occupational exposure limit value</li> <li>short-term occupational exposure limit value</li> <li>Instantaneous value</li> <li>Monitoring and observation processes</li> <li>Remark</li> </ol>
MAK (AT)	Quartz (SiO2) CAS No.: 14808-60-7	① 0.15 mg/m³ ⑤ (alveolengängige Fraktion, Jahres-Miw)
MAK (AT)	cristobalite CAS No.: 14464-46-1	① 0.15 mg/m³ ⑤ alveolengängige Fraktion (Jahres-Miw)
MAK (AT)	magnesia CAS No.: 1309-48-4	① 10 mg/m³ ⑤ (einatembare Fraktion)
MAK (AT)	magnesia CAS No.: 1309-48-4	② 20 mg/m³ ⑤ (einatembare Fraktion, max. 2x60 min./Schicht)
MAK (AT)	magnesia CAS No.: 1309-48-4	① 5 mg/m³ ⑤ (alveolengängige Fraktion)
MAK (AT)	magnesia CAS No.: 1309-48-4	② 10 mg/m³ ⑤ (alveolengängige Fraktion, max. 2x60 min./Schicht)
MAK (AT)	magnesia CAS No.: 1309-48-4	① 5 mg/m³ ⑤ (alveolengängige Fraktion, Magnesiumoxid)
MAK (AT)	magnesia CAS No.: 1309-48-4	② 20 mg/m³ ⑤ (alveolengängige Fraktion, Rauch, max. 4x15 min./Schicht)
DFG (DE)	magnesia CAS No.: 1309-48-4	① 0.3 mg/m³ ② 2.4 mg/m³ ⑤ (alveolengängige Fraktion)
DFG (DE)	magnesia CAS No.: 1309-48-4	① 4 mg/m³ ⑤ (einatembare Fraktion)

#### 8.1.2. Biological limit values

No data available

#### 8.1.3. DNEL-/PNEC-values

No data available

## 8.2. Exposure controls

## 8.2.1. Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

Avoid dust formation.

Use personal protection equipment.

#### 8.2.2. Personal protection equipment

#### Eye/face protection:

Eye glasses with side protection DIN EN 166

#### Skin protection:

No special measures are necessary.

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## **Respiratory protection:**

If the workplace-related limit value is exceeded, apply half mask with particle filter P3.

## Other protection measures:

Use personal protection equipment.

Take off contaminated clothing and wash it before reuse.

When using do not eat, drink, smoke, sniff.

Wash hands and face before breaks and after work and take a shower if necessary.

#### 8.2.3. Environmental exposure controls

Do not allow to enter into surface water or drains.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

**Appearance** 

Physical state: Powder Colour: diverse

**Odour:** odourless

## Safety relevant basis data

parameter		at °C	Method	Remark
рН	5			
Melting point	> 1,500 °C			
Freezing point	not determined			
Initial boiling point and boiling range	not determined			
Decomposition temperature	not determined			
Flash point				non-flammable
Evaporation rate	not determined			
Auto-ignition temperature				not self-igniting, not self-heating
Upper/lower flammability or explosive limits	not determined			
Vapour pressure	not applicable			
Vapour density	not determined			
Density	1,100 - 1,200 kg/m³	20 °C		
Bulk density	not determined			
Water solubility	poorly soluble			
Partition coefficient: n-octanol/ water	not determined			
Dynamic viscosity	not determined			
Kinematic viscosity	not determined			

#### 9.2. Other information

No further relevant information available.

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product itself does not burn.

## 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

#### 10.3. Possibility of hazardous reactions

Decomposition on heat possible.

Ammonia is formed when heated above 200 ° C.

## 10.4. Conditions to avoid

No hazardous reaction when handled and stored according to provisions.

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## 10.5. Incompatible materials

Humidity

## 10.6. Hazardous decomposition products

Ammonia (NH3)

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

#### Acute oral toxicity:

Based on available data, the classification criteria are not met.

#### Acute dermal toxicity:

Based on available data, the classification criteria are not met.

#### Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

#### Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

#### Serious eye damage/irritation:

Based on available data, the classification criteria are not met.

#### Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met.

#### Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

#### Carcinogenicity:

Based on available data, the classification criteria are not met.

#### Reproductive toxicity:

Based on available data, the classification criteria are not met.

## STOT-single exposure:

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure:

May cause damage to organs through prolonged or repeated exposure.

Exposure route :inhalative - lung

Labelling not required by GHS regulation, classification and labeling of the mixture according to voluntary self-classification.

#### **Aspiration hazard:**

Based on available data, the classification criteria are not met.

#### **Additional information:**

Practical/human experience.

Mechanical irritation of skin and mucous linings of eyes and respiratory tract may occur.

ammonia vapours: Irritation and on occasion caustic effects to the skin and mucous membranes (eyes, respiratory channels, in the stomach/intestinal tracts after swallowing) are to be expected from local contact.

No hazardous reaction when handled and stored according to provisions.

In case of improper handling: May cause silicosis.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

## Aquatic toxicity:

No data available

## Additional ecotoxicological information:

Ecological data are not available.

#### 12.2. Persistence and degradability

#### **Biodegradation:**

No data available

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## 12.3. Bioaccumulative potential

#### **Bioconcentration factor (BCF):**

No data available

#### **Accumulation / Evaluation:**

No data available

#### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

A PBT / vPvB assessment is not available as a chemical safety assessment is not required / was carried out.

#### 12.6. Other adverse effects

Do not allow to enter into surface water or drains.

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

#### Waste treatment options

#### Appropriate disposal / Product:

Dispose of waste according to applicable legislation.

#### Appropriate disposal / Package:

Dispose of waste according to applicable legislation.

## **SECTION 14: Transport information**

No dangerous good in sense of these transport regulations.

Land transport (ADR/ RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO- TI / IATA-DGR)
14.1. UN-No.			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper ship	oping name		
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport haz	ard class(es)		
not relevant			
14.4. Packing group			
not relevant			
14.5. Environmental	hazards		
not relevant			
14.6. Special precau	itions for user		
not relevant			

# 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not relevant

according to Regulation (EC) No. 1907/2006 (REACH)

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## **SECTION 15: Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU legislation

No data available

#### 15.1.2. National regulations

[DE] National regulations

## Water hazard class (WGK)

WGK:

1 - schwach wassergefährdend

## Technische Regeln für Gefahrstoffe

To follow: TRGS 906

#### 15.2. Chemical Safety Assessment

No information available, because for the substance no chemical safety report is required.

## **SECTION 16: Other information**

## 16.1. Indication of changes

No data available

## 16.2. Abbreviations and acronyms

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road)ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CAS - Chemical Abstracts Service

IATA - International Air Transport Association

ICAO - International Civil Aviation Organization

IMDG - International Maritime Dangerous Goods

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

EINECS - European Inventory of Existing Commercial Chemical Substances

**ELINCS - European List of Notified Chemical Substances** 

TRGS - Technical Rules for Hazardous Substances

WGK - Water Hazard Class

VOC - volatile organic compounds

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

#### 16.3. Key literature references and sources for data

No data available

# 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

#### Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification proc edure
STOT-repeated exposure (STOT RE 1)	H372: Causes damage to organs through prolonged or repeated exposure. ()	Calculation method.

#### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

<b>Hazard statements</b>	
H372	Causes damage to organs through prolonged or repeated exposure. ()

#### 16.6. Training advice

Workers must be informed about the silica content of the product and trained in the proper handling of the product.

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## 16.7. Additional information

The information contained in this safety data sheet is based on our best knowledge and conscience on topically available information about the correct use of the product under normal conditions. The user is solely responsible for any other usage of this product in connection with other processes / procedures which is not described in this data sheet. This document does not show any explicit or implicit guarantee with regard to product quality or suitability for a certain purpose.